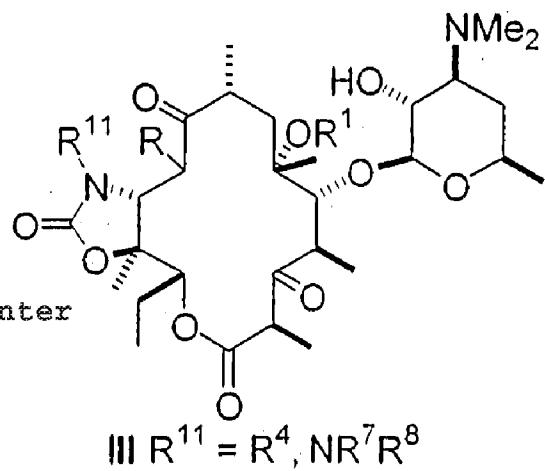


IN THE CLAIMS

1-5. (Cancelled)

6. (Currently Amended) A 10-desmethyl macrolide consisting of comprising- formula III: |

(1) R is methyl substituted with one or more substituents selected from the group consisting of

(i) CN,

(ii) F,

(iii) CO_2R^3 wherein R^3 is selected from hydrogen, C_1 - C_3 -alkyl or aryl substituted C_1 - C_3 -alkyl, or heteroaryl substituted C_1 - C_3 -alkyl,(iv) OR^4 wherein R^4 is selected from hydrogen, C_1 - C_4 -alkyl or aryl substituted C_1 - C_4 -alkyl, or heteroaryl substituted C_1 - C_4 -alkyl, heterocycloalkyl and optionally substituted cycloalkyl, C_1 - C_3 -alkoxy- C_1 - C_3 -alkoxy, C_2 - C_4 -alkenyl or aryl substituted C_2 - C_4 -alkenyl, or heteroaryl substituted C_2 - C_4 -alkenyl, heterocycloalkyl and optionally substituted cycloalkyl, aryl or optionally substituted aryl, heteroaryl or optionally substituted heteroaryl,(v) $S(O)_nR^3$ wherein $n = 0, 1$ or 2 and R^3 is as previously defined(vi) $NR^4C(O)R^3$ wherein R^3 and R^4 are as previously defined(vii) $NR^4C(O)NR^5R^6$ wherein R^4 is defined as defined previously, and R^5 and R^6 are independently selected from hydrogen, C_1 - C_3 -alkyl, C_1 - C_3 alkyl substituted with aryl, substituted aryl, heteroaryl, substituted heteroaryl(viii) NR^7R^8 wherein R^7 and R^8 are independently selected from the group consisting of

(a) hydrogen

(b) C_1 - C_{12} -alkyl, and optionally substituted C_1 - C_{12} -alkyl(c) C_2 - C_{12} -alkenyl, and optionally substituted C_2 - C_{12} -alkenyl(d) C_2 - C_{12} -alkynyl, and optionally substituted C_2 - C_{12} -alkynyl

- (e) aryl, and optionally substituted aryl
- (f) heteroaryl, and optionally substituted heteroaryl
- (g) heterocycloalkyl, and optionally substituted heterocycloalkyl
- (h) C_1-C_{12} alkyl substituted with aryl, and optionally substituted with substituted aryl
- (i) C_1-C_{12} alkyl substituted with heteroaryl, and optionally substituted with substituted heteroaryl
- (j) C_1-C_{12} alkyl substituted with heterocycloalkyl, and with optionally substituted heterocycloalkyl, and
- (k) R^7 and R^8 taken together with the atom to which they are attached from a 3-10- membered heterocycloalkyl ring which may contain one or more additional heteroatoms and may be substituted with one or more substituents independently selected from the group consisting of
 - (aa) halogen, hydroxy, C_1-C_3 -alkoxy, alkoxy- C_1-C_3 -alkoxy, oxo, C_1-C_3 -alkyl, aryl and optionally substituted aryl, heteroaryl and optional substituted heteroaryl
 - (bb) CO_2R^3 wherein R^3 is as previously defined, and
 - (cc) $C(O)NR^5R^6$ wherein R^5 and R^6 are as previously defined,
- (ix) aryl, and optionally substituted aryl, and
- (x) heteroaryl, and optionally substituted heteroaryl,
- (2) C_2-C_{10} -alkyl,
- (3) C_2-C_{10} -alkyl substituted with one or more substituents selected from the group consisting of
 - (i) halogen,
 - (ii) OR^4 wherein R^4 is as defined previously
 - (iii)-CHO,
 - (iv) oxo,
 - (v) NR^7R^8 wherein R^7 and R^8 are defined as previously
 - (vi) $=N-O-R^4$ is wherein R^3 is as previously defined
 - (vii)-CN
 - (viii)- $S(O)_nR^3$ wherein $n = 0, 1$ or 2 and R^3 is as previously defined
 - (ix) aryl, and optionally substituted aryl
 - (x) heteroaryl, and optionally substituted heteroaryl
 - (xi) C_3-C_8 -cycloalkyl, and optionally substituted C_3-C_8 -cycloalkyl
 - (xii) heterocycloalkyl, and optionally substituted heterocycloalkyl
 - (xiii) $NR^4C(O)R^3$ where R^3 and R^4 are as previously defined
 - (xiv) $NR^4C(O)NR^5R^6$ wherein R^4 , R^5 and R^6 are as previously defined
 - (xv) $=N-NR^7R^8$ wherein R^7 and R^8 are as previously defined
 - (xvi) $=N-R^4$ wherein R^4 is as previously defined
 - (xvii) $=N-NR^4C(O)R^3$ wherein R^3 and R^4 are as previously defined, and

(xviii)=N-NR⁴C(O)NR⁵R⁶ wherein R⁴, R⁵ and R⁶ are as previously defined,

(4) C₂-C₁₀-alkenyl,

(5) C₂-C₁₀-alkenyl substituted with one or more substituents selected from the group consisting of

(i) halogen,

(ii) OR⁴ wherein R⁴ is as previously defined

(iii) O-S(O)_nR³ where n and R³ are as previously defined

(iv)-CHO,

(v) oxo,

(vi)-CO₂R³ where R³ is as previously defined

(vii)-C(O)-R⁴ where R⁴ is as previously defined

(viii) -CN

(ix) aryl, and optionally substituted aryl

(x) heteroaryl, and optionally substituted heteroaryl

(xi) C₃-C₇-cycloalkyl

(xii) C₁-C₁₂-alkyl substituted with heteroaryl

(xiii)NR⁷R⁸ wherein R⁷ and R⁸ are as previously defined

(xiv) NR⁴C(O)R³ where R³ and R⁴ are as previously defined

(xv) NR⁴C(O)NR⁵R⁶ where R⁴, R⁵ and R⁶ are as previously defined

(xvi) =N-O-R⁴ where R⁴ is as previously defined

(xvii)=N-NR⁷R⁸ wherein R⁷ and R⁸ are as previously defined

(xviii) =N-NR⁴ wherein R⁴ is as previously defined

(xix)=N-NR⁴C(O)R³ wherein R³ and R⁴ are as previously defined, and

(xx)=N-NR⁴C(O)NR⁵R⁶ wherein R⁴, R⁵ and R⁶ are as previously defined,

(6) C₂-C₁₀-alkynyl

(7) C₂-C₁₀-alkynyl substituted with one or more substituents selected from the group consisting of

(i) trialkylsilyl

(ii) halogen,

(iii) -CN

(iv) OR⁴ where R⁴ is defined as previously

(v)-CHO,

(vi) oxo,

(vii)-CO₂R³ where R³ is as previously defined

(viii)-C(O)NR⁵R⁶ wherein R⁵ and R⁶ are as previously defined

(ix)NR⁷R⁸ wherein R⁷ and R⁸ are as previously defined

- (x) $O-S(O)_nR^3$ where n and R^3 are as previously defined
- (xi) C_3-C_7 -cycloalkyl
- (xii) C_1-C_{12} -alkyl substituted with heteroaryl
- (xiii) aryl, and optionally substituted aryl
- (xiv) heteroaryl, and optionally substituted heteroaryl
- (xv) $NR^4C(O)R^3$ where R^3 and R^4 are as previously defined
- (xvi) $NR^4C(O)NR^5R^6$ where R^4 , R^5 and R^6 are as previously defined
- (xvii) $=N-O-R^4$ where R^4 is as previously defined
- (xviii) $=N-NR^7R^8$ wherein R^7 and R^8 are as previously defined
- (xix) $=N-NR^4C(O)R^3$ wherein R^3 and R^4 are as previously defined, and
- (xx) $=N-NR^4C(O)NR^5R^6$ wherein R^4 , R^5 and R^6 are as previously defined,
- (8) cyclic substituents selected from the group consisting of
 - (i) aryl, and optionally substituted aryl
 - (ii) heteroaryl, and optionally substituted heteroaryl
 - (iii) heterocycloalkyl, and optionally substituted heterocycloalkyl, and
 - (iv) C_3-C_7 -cycloalkyl, and optionally substituted C_3-C_7 -cycloalkyl, and
- (9) C_1 substituents with the exception of 10-methyl derivatives which are part of the above definitions under (1)
 - (i) -CHO
 - (ii) -CN
 - (iii) CO_2R^3 wherein R^3 is as previously defined
 - (iv) $C(O)NR^5R^6$ wherein R^5 and R^6 are as previously defined
 - (v) $C(S)NR^5R^6$ wherein R^5 and R^6 are as previously defined
 - (vi) $C(NR^4)NR^5R^6$ wherein R^4 , N^5 and R^6 are as previously defined
 - (vii) (vii) $CH=N-O-R^4$ wherein R^4 is as previously defined
 - (viii) $CH=N-R^4$ is wherein R^4 is as previously defined
 - (ix) $CH=N-NR^7R^8$ wherein R^7 and R^8 are as previously defined
 - (x) $CH=N-NR^4C(O)R^3$ wherein R^3 and R^4 are as previously defined, and
 - (xi) $CH=N-NR^4C(O)NR^5R^6$ wherein R^4 , R^5 and R^6 are as previously defined;

R^1 is selected from the group consisting of

- (1) H
- (2) methyl
- (3) methyl substituted with one or more substituents selected from the group consisting of
 - (i) F
 - (ii) -CN
 - (iii) $-CO_2R^{11}$ where R^{11} is C_1-C_3 -alkyl or aryl substituted C_1-C_3 -alkyl, or heteroalkyl substituted

C₁-C₃-alkyl

- (iv) -C(O)NR⁵R⁶ wherein R⁵ and R⁶ are defined as previously
- (v) aryl, and optionally substituted aryl, and
- (vi) heteroaryl, and optionally substituted heteroaryl
- (4) C₂-C₁₀-alkyl
- (5) substituted C₂-C₁₀-alkyl with one or more substituents selected from the group consisting of
 - (i) halogen,
 - (ii) OR⁴ where R⁴ is defined as previously
 - (iii) C₁-C₃-alkoxy-C₁-C₃-alkoxy
 - (iv)-CHO
 - (v) oxo
 - (vi) NR⁷R⁸ wherein R⁷ and R⁸ are as previously defined
 - (vii) =N-O-R⁴ where R⁴ is as previously defined
 - (viii) -CN
 - (ix) -S(O)_nR³ where n = 0, 1, or 2 and R³ is as previously defined
 - (x) aryl, and optionally substituted aryl
 - (xi) heteroaryl, and optionally substituted heteroaryl
 - (xii) C₃-C₈-cycloalkyl, and optionally substituted C₃-C₈-cycloalkyl
 - (xiii) C₁-C₁₂-alkyl substituted with heteroaryl, and optionally substituted heteroaryl
 - (xiv) heterocycloalkyl
 - (xv) NHC(O)R³ where R³ is as previously defined
 - (xvi) NHC(O)NR⁵R⁶ where R⁵ and R⁶ are as previously defined
 - (xvii)=N-NR⁷R⁸ wherein R⁷ and R⁸ are as previously defined
 - (xviii) =N-R⁴ wherein R⁴ as previously defined, and
 - (xix)=N-NHC(O)R³ wherein R³ is as previously defined,
- (4) C₁-C₁₀-alkenyl substituted with one or more substituents selected from the group consisting of
 - (i) halogen,
 - (ii) OR⁴ where R⁴ is as previously defined
 - (iii)-CHO
 - (iv) oxo
 - (v) -S(O)_nR³ where n and R³ are as previously defined
 - (vi) -CN
 - (vii) -CO₂R³ where R³ is as previously defined
 - (viii)NR⁷R⁸ wherein R⁷ and R⁸ are as previously defined
 - (ix) =N-O-R⁴ where R⁴ is as previously defined

- (x) $-\text{C}(\text{O})\text{R}^4$ where R^4 is as previously defined
- (xi) $-\text{C}(\text{O})\text{NR}^5\text{R}^6$ wherein R^5 and R^6 are as previously defined
- (xii) aryl, and optionally substituted aryl
- (xiii) heteroaryl, and optionally substituted heteroaryl
- (xiv) $\text{C}_3\text{-}\text{C}_7$ -cycloalkyl
- (xv) $\text{C}_1\text{-}\text{C}_{12}$ -alkyl substituted with heteroaryl
- (xvi) $\text{NHC}(\text{O})\text{R}^3$ where R^3 is as previously defined
- (xvii) $\text{NHC}(\text{O})\text{NR}^5\text{R}^6$ where R^5 and R^6 are as previously defined
- (xviii) $=\text{N-NR}^7\text{R}^8$ wherein R^7 and R^8 are as previously defined
- (xix) $=\text{N-R}^4$ wherein R^4 is as previously defined,
- (xx) $=\text{N-NHC}(\text{O})\text{R}^3$ wherein R^3 is as previously defined, and
- (xxi) $=\text{N-NHC}(\text{O})\text{NR}^5\text{R}^6$ wherein R^5 and R^6 are as previously defined,
- (5) $\text{C}_2\text{-}\text{C}_{10}$ -alkynyl, and
- (6) $\text{C}_2\text{-}\text{C}_{10}$ -alkynyl substituted with one or more substituents selected from the group consisting of
 - (i) halogen,
 - (ii) OR^4 where R^4 is defined as previously
 - (iii) -CHO
 - (iv) oxo
 - (v) $-\text{CO}_2\text{R}^3$ where R^3 is as previously defined
 - (vi) $-\text{C}(\text{O})\text{NR}^5\text{R}^6$ wherein R^5 and R^6 are as previously defined
 - (vii) -CN
 - (viii) NR^7R^8 wherein R^7 and R^8 are as previously defined
 - (ix) $=\text{N-O-R}^4$ where R^4 is as previously defined
 - (x) $-\text{S}(\text{O})_n\text{R}^3$ where n and R^3 are as previously defined
 - (xi) aryl, and optionally substituted aryl
 - (xii) heteroaryl, and optionally substituted heteroaryl
 - (xiii) $\text{C}_3\text{-}\text{C}_7$ -cycloalkyl
 - (xiv) $\text{C}_1\text{-}\text{C}_{12}$ -alkyl substituted with heteroaryl
 - (xv) $\text{NHC}(\text{O})\text{R}^3$ where R^3 is as previously defined
 - (xvi) $\text{NHC}(\text{O})\text{NR}^5\text{R}^6$ where R^5 and R^6 are as previously defined
 - (xvii) $=\text{N-NR}^7\text{R}^8$ wherein R^7 and R^8 are as previously defined
 - (xviii) $=\text{N-R}^4$ wherein R^4 is as previously defined
 - (xix) $=\text{N-NHC}(\text{O})\text{R}^3$ wherein R^3 is as previously defined, and
 - (xx) $=\text{N-NHC}(\text{O})\text{NR}^5\text{R}^6$ wherein R^5 and R^6 are as previously defined;

- (1) hydrogen
- (2) OH
- (3) OR³ where R³ is as previously defined
- (4) OC(O)R³ where R³ is as previously defined, and
- (5) O(CO)OR³ where R³ is as previously defined;

and X and Y taken together are selected from the group consisting of

- (1) O
- (2) NOR⁴ wherein R⁴ is as defined previously
- (3) N-O C(R⁹)(CR¹⁰)-O-R⁴ wherein R⁴ is as previously defined and
 - (i) R⁹ and R¹⁰ are each independently defined as R⁴, or
 - (ii) R⁹ and R¹⁰ are taken together with the atom to which they are attached from a C₃-C₁₂ cycloalkyl ring,
- (4) NR⁴ wherein R⁴ is as previously defined, and
- (5) N-NR⁷R⁸ wherein R⁷ and R⁸ are as previously defined, or one of X and Y is hydrogen and the other is selected from the group consisting of

- (1) -OR⁴ wherein R⁴ is as previously defined, and
- (2) -NR⁷R⁸ wherein R⁷ and R⁸ are as previously defined.

R^P is selected from the group consisting of

- (1) hydrogen
- (2) R³ as previously defined
- (3) COR³ where R³ is as previously defined;

subject to the proviso that when the structure is IV, Z and M are part of a five- or six-membered ring, said rings optionally being fully or partially unsaturated; for the six-membered ring, the bonding between Z and M is through a carbonyl group; for the five-membered ring, the bonding is directly between Z and M excluding CO; Z and M are independently selected from the group consisting of carbon, oxygen or N; and when M = N a second bridge may exist between this nitrogen and the oxygen of the 12-OH group whereby either an additional annulated oxazole or oxazine ring constitutes part of the molecule; and subject to the proviso that when the structure is V, Z and M are part of a five- or six-membered ring, said rings optionally being fully saturated or fully or partially unsaturated; for the six-membered ring, the bonding between Z and M is through a carbonyl group; for the five-membered ring, the bonding is directly between Z and M excluding CO; Z and M are independently selected from the group consisting of carbon, oxygen or nitrogen; and when M = N a second bridge may exist between this nitrogen and the urethane nitrogen;

wherein aryl groups have 5 to 10 ring atoms, and heteroaryl groups have 5 to 10 ring atoms including C and at least one of N, O or S.

7. (Previously Presented) A pharmaceutical composition comprising an antibiotic 10-desmethyl macrolide of claim 6 and a pharmaceutical excipient.
8. (Cancelled)
9. (Previously Presented) A method of treatment of a human or animal subject to combat bacterial infection thereof, which method comprises administering to said subject an antibiotic 10-desmethyl macrolide of claim 6.
10. (Cancelled)